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NOTICE OF ALLOWANCE AND FEE(S) DUE

26541

7590

12/01/2009

Cindy S. Kaplan P.O. BOX 2448 SARATOGA, CA 95070 EXAMINER

JEAN GILLES, JUDE

ART UNIT PAPER NUMBER

2443

DATE MAILED: 12/01/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/791,630	03/01/2004	Robert Raszuk	CISCP853	3104

TITLE OF INVENTION: TECHNIQUES FOR AUTOMATICALLY CREATING AN IBGP MESH

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	03/01/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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Cindy S. Kapla P.O. BOX 2448 SARATOGA, C	n	/2009	I he Stat	Certifi reby certify that this I es Postal Service with	cate of Mailing or Trans Fee(s) Transmittal is being	
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						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	. A'	ITORNEY DOCKET NO.	CONFIRMATION NO.
10/791,630 TITLE OF INVENTION	03/01/2004 : TECHNIQUES FOR A	AUTOMATICALLY CRE	Robert Raszuk EATING AN IBGP MESH		CISCP853	3104
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE F	EE TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	03/01/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS]		
JEAN GILI	LES, JUDE	2443	709-223000	,		
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Unl	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp	nge of Correspondence "Indication form led. Use of a Customer A TO BE PRINTED ON This ified below, no assignee	2. For printing on the p (1) the names of up to or agents OR, alternativ (2) the name of a singl registered attorney or a 2 registered patent atto listed, no name will be THE PATENT (print or type data will appear on the part of the	o 3 registered patent a vely, e firm (having as a magent) and the names or news or agents. If no printed. Dee) atent. If an assignee assignment.	ember a 2of up to name is 3is identified below, the definition of the	ocument has been filed for
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APPLICATION NO.	FILING DATE	FILING DATE FIRST NAMED INVENTOR		CONFIRMATION NO.	
10/791,630 03/01/2004		Robert Raszuk	CISCP853 3104		
26541 7.	590 12/01/2009		EXAM	IINER	
Cindy S. Kaplan			JEAN GILLES, JUDE		
P.O. BOX 2448			ART UNIT	PAPER NUMBER	
SARATOGA, CA 95070			2443		
			DATE MAILED: 12/01/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 994 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 994 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)					
Notice of Allowability	10/791,630 Examiner	RASZUK, ROBERT Art Unit					
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	LXammer	Artonic					
	JUDE J. JEAN GILLES	2443					
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commun	this application. If not included nication will be mailed in due course. THIS					
1. This communication is responsive to <u>09/25/2009</u> .							
2. The allowed claim(s) is/are <u>1, 3, 6-21, and 23-29</u> .							
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Application	No					
* Certified copies not received:							
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	IENT of this application. itted. Note the attached EXA	MINER'S AMENDMENT or NOTICE OF					
5. CORRECTED DRAWINGS (as "replacement sheets") mus	· , ·						
	(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached						
1) hereto or 2) to Paper No./Mail Date	-	,					
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date							
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t							
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT							
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit	6. ☐ Interview Su Paper No./N 7. ☑ Examiner's A	ormal Patent Application mmary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance					
of Biological Material	9.						
/Jude J Jean-Gilles/							
Primary Examiner, Art Unit 2443							

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with attorney for the applicants, Cindy Kaplan on Friday November 13, 2009.

During a the interview with Mrs. kaplan, the Examiner was authorized to amend the independent claims as indicated below through an Examiner's amendment, adding the <u>BGP identifier and</u> static configuration parameters to the BGP peering information to establish a BGP peering session and further clarifying the claimed invention.

Proposed Examiner's Amendment

Please amend all claims of the application as follow:

Claim 1 (currently amended): A method of establishing a BGP (Border Gateway Protocol) mesh in a network, comprising:

receiving BGP peering information flooded from a BGP speaker, the BGP peering information comprising a BGP identifier and static configuration parameters used to establish a BGP peering session;

automatically discovering at least one neighbor utilizing said received BGP peering information; and

automatically establishing said BGP peering session with said at least one

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neighbor to establish a BGP mesh.

Claim 2 (canceled).

Claim 3 (original): The method of claim 1, wherein the network device is a router or route reflector.

Claim 4 (canceled).

Claim 5 (canceled).

Claim 6 (original): The method of claim 1, wherein the BGP peering information comprises a flooding protocol.

Claim 7 (original): The method of claim 6, wherein the flooding protocol is OSPF or ISIS.

Claim 8 (original): The method of claim 1, wherein the BGP peering information comprises a flooding scope.

Claim 9 (previously presented): The method of claim 1, wherein the BGP peering

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information comprises an autosynchronous system (AS) number or confederation sub-AS number.

Claim 10 (original): The method of claim 1, wherein the BGP peering information comprises a force new peering flag and a new peering address.

Claim 11 (original): The method of claim 1, wherein the BGP peering information comprises an originator flag.

Claim 12 (original): The method of claim 11, wherein the BGP peering information comprises an address family identifier.

Claim 13 (original): The method of claim 1, wherein the BGP peering information comprises a route reflector flag.

Claim 14 (original): The method of claim 13, wherein the BGP peering information comprises an address family identifier.

Claim 15 (original): The method of claim 13, wherein the BGP peering information comprises a cluster identifier.

Claim 16 (original): The method of claim 1, wherein the BGP peering

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information comprises an old BGP identifier.

Claim 17 (original): The method of claim 1, wherein the BGP mesh is an iBGP mesh.

Claim 18 (currently amended): A network system that establishes a BGP (Border Gateway Protocol) mesh in a network, comprising:

a first network device flooding BGP peering information comprising <u>a BGP</u>

<u>identifier and</u> static configuration parameters used to establish a BGP peering session;
and

at least one other network device that receives the BGP peering information, automatically discovers at least one neighbor utilizing said received BGP peering information, and automatically establishes said BGP session with the at least one neighbor to establish a BGP mesh;

wherein at least one of the network devices is a BGP speaker.

Claim 19 (currently amended): A computer-readable storage medium encoded with a computer program that establishes a BGP (Border Gateway Protocol) mesh in a network, the computer program comprising:

computer code that configures a processor to receive BGP peering information flooded from a BGP speaker, the BGP peering information comprising <u>a BGP identifier</u> and static configuration parameters used to establish a BGP peering session;

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computer code that configures a processor to automatically discover at least one neighbor utilizing said received BGP peering information; and

computer code that automatically establishes said BGP session with the at least one neighbor to establish a BGP mesh.

Claim 20 (currently amended): A network system that establishes a BGP (Border Gateway Protocol) mesh in a network, comprising:

means for receiving BGP peering information flooded from a BGP speaker, the BGP peering information comprising a BGP identifier and static configuration parameters used to establish a BGP peering session;

means for automatically discovering at least one neighbor utilizing said received BGP peering information; and

a means for automatically establishing said BGP session with the at least one neighbor to establish a BGP mesh.

Claim 21 (currently amended): A method of establishing a BGP (Border Gateway Protocol) mesh in a network, comprising:

receiving BGP peering information from a BGP speaker, the BGP peering information comprising a BGP identifier and static configuration parameters used to establish a BGP peering session;

analyzing the BGP peering information to identify at least one neighbor;

performing a BGP session with the at least one neighbor to establish a BGP mesh; and

flooding the received BGP peering information to at least one other network device.

Claim 22 (canceled).

Claim 23 (currently amended): A network system that establishes a BGP (Border Gateway Protocol) mesh in a network, comprising:

a first network device that receives BGP peering information, the BGP peering information comprising a BGP identifier and static configuration parameters used to establish a BGP peering session, analyzes the BGP peering information to identify at least one neighbor, performs a BGP session with the at least one neighbor to establish a BGP mesh, and floods the BGP peering information; and

a second network device that receives the BGP peering information from the first network device;

wherein at least one of the network devices is a BGP speaker.

Claim 24 (currently amended): A computer-readable storage medium encoded with a computer program that establishes a BGP (Border Gateway Protocol) mesh in a network, the computer program comprising:

computer code that receives BGP peering information, the BGP peering

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information comprising a BGP identifier and static configuration parameters used to establish a BGP peering session;

computer code that analyzes the BGP peering information to identify at least one neighbor;

computer code that performs a BGP session with the at least one neighbor to establish a BGP mesh; and

computer code that floods the BGP peering information.

Claim 25 (currently amended): A network system that establishes a BGP (Border Gateway Protocol) mesh in a network, comprising:

means for receiving BGP peering information, the BGP peering information comprising a BGP identifier and static configuration parameters used to establish a BGP peering session;

means for analyzing the BGP peering information to identify at least one neighbor;

means for performing a BGP session with the at least one neighbor to establish a BGP mesh; and

means for flooding the received BGP peering information.

Claim 26 (currently amended): A method of establishing an iBGP (internal Border Gateway Protocol) mesh in a network, comprising: receiving iBGP peering information flooded from a BGP speaker, the BGP Application/Control Number: 10/791,630

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peering information comprising a BGP identifier and static configuration parameters used to establish an iBGP peering session;

automatically discovering at least one neighbor utilizing said received BGP peering information; and

automatically establishing said iBGP session with the at least one neighbor to establish an iBGP mesh.

Claim 27 (currently amended): A network system that establishes an iBGP (internal Border Gateway Protocol) mesh in a network, comprising:

a first network device flooding iBGP peering information comprising a BGP identifier and static configuration parameters used to establish an iBGP peering session; and

at least one other network device that receives the iBGP peering information, automatically discovers at least one neighbor utilizing said received BGP peering information, and automatically establishes said iBGP session with the at least one neighbor to establish an iBGP mesh;

wherein at least one of the network devices is a BGP speaker.

Claim 28 (currently amended): A computer-readable storage medium encoded with a computer program that establishes an iBGP (internal Border Gateway Protocol) mesh in a network, the computer program comprising:

computer code that configures a processor to receive iBGP peering information

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flooded from a BGP speaker, the iBGP peering information comprising <u>a BGP identifier</u> and static configuration parameters used to establish an iBGP peering session;

computer code that configures a processor to automatically discover at least one neighbor utilizing said received BGP peering information; and

computer code that automatically establishes said iBGP session with the at least one neighbor to establish an iBGP mesh.

Claim 29 (currently amended): A network system that establishes an iBGP (internal Border Gateway Protocol) mesh in a network, comprising:

means for receiving iBGP peering information flooded from a BGP speaker, the iBGP peering information comprising <u>a BGP identifier and</u> static configuration parameters used to establish an iBGP peering session;

means for automatically discovering at least one neighbor utilizing said received BGP peering information; and

means for automatically establishing said iBGP session with the at least one neighbor to establish an iBGP mesh.

Cancelled Claims

Claims 2, 4, 5, and 22 are cancelled without prejudice or disclaimer.

Allowed Claims

Claims 1, 3, 6-21, and 23-29 are allowed. Renumbered 1-25.

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Reason for allowance

The closest prior art or record, Unbehagen does not disclose a method/ to establish a BGP (Border Gateway Protocol) or an iBGP (internal Border Gateway Protocol) that comprises receiving BGP peering information flooded from a BGP speaker, the BGP peering information comprising a BGP identifier and static configuration parameters used to establish a BGP peering session; automatically discovering at least one neighbor utilizing said received BGP peering information; and automatically establishing said BGP peering session with said at least one neighbor to establish a BGP mesh. Applicant's argument in the Request for Continued Examination (RCE) dated 09/25/2009 supports the reasons for allowance and states the BGP peering information is flooded form a BGP speaker. Further, the independent claims are amended per this examiner's amendment to include additional BGP peering information such as the BGP identifier to the static configuration parameters used to establish the BGP session. In addition the specification documents, fig. 3, and pages 3-4 and 10-11 support the teaching of the claimed invention.

The dependent claims further limit the independent claims and are considered allowable on the same basis as the independent claims as well as for the further limitations set forth.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany

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the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from examiner should be directed to Jude Jean-Gilles whose telephone number is (571) 272-3914.

The examiner can normally be reached on Monday- Friday from 8:00 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tonia Dollinger, can be reached on (571) 272-4170. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-3301.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-0800.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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/Jude J Jean-Gilles/

Primary Examiner, Art Unit 2443

November 18, 2009